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TITLE: Opto-electric **mounting apparatus**

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Opto-electric **mounting apparatus**

The present invention relates to the attachment of an optical coupler to a circuit board and, more specifically to the piggy back attachment of an optical coupler to another component, such as an integrated circuity (IC) **mounted on a circuit board**.

1. A **method of mounting** an opto-electric device to an integrated circuit comprising: placing an integrated circuit on a substrate in a first plane; placing an opto-electric device on said substrate in a second plane; connecting said opto-electric device to said integrated circuit through the use of cross-plane connections.

11. A **method of mounting** an opto-electric device to an integrated circuit comprising: forming said opto-electric device in a package; placing said opto-electric device on top of said integrated circuit; sealing said package; and mounting said package to a substrate.

12. A method for operating an opto-electric device, the method comprising: receiving an **optical signal** at an input of said opto-electric device, said opto-electric device being located in a first plane; and passing an electrical signal representative of said **optical signal** to an

integrated circuit mounted
in a second plane spaced apart from said first plane,
wherein said electrical
signal passes from said opto-electric device to said
integrated circuit via a
cross-plane conductor.

13. A method for operating an opto-electric device, the method comprising:
receiving an electrical signal at an input of said
opto-electric device from an
integrated circuit, said integrated circuit being located
in a first plane;
and passing an **optical signal** representative of said
electrical signal to an
output of said opto-electric device mounted in a second
plane spaced apart from
said first plane, wherein said electrical signal passes
from said integrated
circuit to said opto-electric device via a cross-plane
conductor.

L Number	Hits	Search Text	DB	Time stamp
1	7	"5991435"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:16
2	4	"6176011"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:20
3	4	"6199272"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:22
4	0	mount$3 near information near (apparatus and method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:24
5	1	mount$3 near2 collect$3 near (apparatus and method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:25
6	1175	(mounted near3 (circuit near boards)) and optical near signal	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:26
8	151	(mount$3 near3 (apparatus and method)) and mounted near circuit near boards	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:29
9	4	((mount$3 near3 (apparatus and method)) and mounted near circuit near boards) and optical near signal	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:36
10	59	((mount$3 near3 (apparatus and method)) and mounted near circuit near boards) and light	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:36
7	1	(mount$3 near2 collect$3) near (apparatus and method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 17:41

L Number	Hits	Search Text	DB	Time stamp
1	5	"5628111" and (detect or measur$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:21
2	4	"6199272"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:19
3	9	"5628111"	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:23
4	2738	mount$3 near3 (apparatus and method)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:26
5	190	(mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:28
6	152	((mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits) and process$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:32
7	43	(((mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits) and process$3) and 29/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:54
8	3	(((mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits) and process$3) and 356/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:55
9	4	(((mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits) and process$3) and 250/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:56
10	7	(((mount$3 near3 (apparatus and method)) and (detect$3 or measur$3) near9 circuits) and process$3) and 382/$.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2003/04/28 10:56